Application No: 10514626   Version No: 2.0

Input Set:

Output Set:

Started: 2008-09-25 15:54:27.253
Finished: 2008-09-25 15:54:29.922
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 669 ms
Total Warnings: 50
Total Errors: 0
No. of SeqIDs Defined: 53
Actual SeqID Count: 53

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)

Input Set:

Output Set:

Started:	2008-09-25 15:54:27.253
Finished:	2008-09-25 15:54:29.922
Elapsed:	0 hr(s) 0 min(s) 2 sec(s) 669 ms
Total Warnings:	50
Total Errors:	0
No. of SeqIDs Defined:	53
Actual SeqID Count:	53

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (23)
W 402	Undefined organism found in <213> in SEQ ID (24)
W 402	Undefined organism found in <213> in SEQ ID (25)
W 402	Undefined organism found in <213> in SEQ ID (26)
W 402	Undefined organism found in <213> in SEQ ID (27)
W 402	Undefined organism found in <213> in SEQ ID (28)
W 402	Undefined organism found in <213> in SEQ ID (29)
W 402	Undefined organism found in <213> in SEQ ID (30)
W 402	Undefined organism found in <213> in SEQ ID (31)
W 402	Undefined organism found in <213> in SEQ ID (32)
W 402	Undefined organism found in <213> in SEQ ID (33)
W 402	Undefined organism found in <213> in SEQ ID (34)
W 402	Undefined organism found in <213> in SEQ ID (35)
W 402	Undefined organism found in <213> in SEQ ID (36)
W 402	Undefined organism found in <213> in SEQ ID (37)
W 402	Undefined organism found in <213> in SEQ ID (38)
W 402	Undefined organism found in <213> in SEQ ID (39)
W 402	Undefined organism found in <213> in SEQ ID (40)
W 402	Undefined organism found in <213> in SEQ ID (41)

This error has occured more than 20 times, will not be displayed

<400>   1
atggaaggtc cagcgttctc aaaaccccctt aaagataaga ttaacccgtg gggccccccta   60

atagtcctgg gaatcttaat gagggcaaga gtatcagtac aacatgacag ccctcatcag   120

gtcttcaatg ttacttggag agttaccaac ttaatgacag gacaaacagc taatgctacc   180

tccctcctgg ggacaatgac cgatgccttt cctaaactgt actttgactt gtgcgattta   240

atagggggacg actgggatga gactggactc gggtgtcgca ctcccggggg aagaaaaagg   300

gcaagaatat ttgacttcta tgtttgcccc ggtcacactg tgctagcagg gtgtggaggg   360

ccgagagagg gctactgtgg caaatgggga tgtgagacca ctggacaggc atactggaag   420

ccatcatcat catgggacct aatttcccctt aagcgaggaa acactcctaa aggccagggc   480

ccctgttatg attcctcggt ggtctccagt agcgcccagg gtgccacacc gggggggtcga   540

tgcaacccccc tagtcctaga attcactgac gcgggtaaaa gggccagctg ggacgcctcc   600

aaagcatggg gactaagact gtaccgatcc acaaggaccg acccggtgac ccggttctct   660

ttgacccgcc aggtcctcaa tatagggccc cgcgtcccca ttgggcctaa tcccgtgatc   720

attgaccagt accccccctc ccgacccgtg cagatcatgc tccccaggcc tcctcagcct   780

cctccaccag gcgcagcctc tacagtccct gagactgccc caccttccca acaacctggg   840

acgggagaca ggctgctaaa cctggtaaat ggagcctacc aagctctcaa cctcaccagt   900

cctgacaaaa cccaagagtg ctggttgtgt ctggtagcgg acccccccta ctacgaaggg   960

```
gttgccgtcc taggtactta ttccaccat acctctgccc cagctaactg ctccgtggcc      1020

tcccaacaca agctgaccct gtccgaagtg accggacagg gactctgcgt aggagcagtt      1080

cccaaaaccc atcaggcccct gtgtaatacc acccagaaga cgagcaacgg gtcctactat     1140

ctggctgctc ccgccgggac catttgggct tgcaacaccg ggctcactcc ctgcctatct      1200

accactgtgc tcgacctcac caccgattac tgtgtcctgg ttgagctctg gccaaaagtg      1260

acctaccact cccctggtta tgtttatggc cagtttgaag aaaaaaccaa atataaaaga      1320

gaacccgtct cactaactct ggccctacta ttaggaggac tcactatggg cggaattgcc      1380

gccggagtgg aacagggac taccgcccta gtggccactc agcagttcca acaactccag       1440

gctgccatgc aggatgacct taaagaagtt gaaaagtcca tcactaatct agaaagatct      1500

ttgacctcct tgtccgaagt agtgttacag aatcgtagag cctagatct actattccta       1560

aaagagggag gtttgtgtgc tgccttaaaa aagaatgct gtttctatgc cgaccacaca       1620

ggattggtac gggatagcat ggccaaactt agagaaagat tgagtcagag acaaaaactc      1680

tttgaatccc aacaagggtg gtttgaaggg ctgtttaaca agtcccettg gttcaccacc      1740

ctgatatcca ccatcatggg tcccctgata atcctcttgt taatttttact ctttgggcct     1800

tgtattctca atcacctggt ccagtttatc aaagacaggg tttcggtagt gcaggccctg      1860

gtcctgactc aacaatatca tcaacttaag acaatagaag attgtgaatc acgtgaataa      1920
```


<210>   2
<211>   639
<212>   PRT
<213>   Murine leukemia virus

<400>   2

Met Glu Gly Pro Ala Phe Ser Lys Pro Leu Lys Asp Lys Ile Asn Pro
1   5   10   15

Trp Gly Pro Leu Ile Val Leu Gly Ile Leu Met Arg Ala Arg Val Ser
            20   25   30

Val Gln His Asp Ser Pro His Gln Val Phe Asn Val Thr Trp Arg Val
        35   40   45

Thr Asn Leu Met Thr Gly Gln Thr Ala Asn Ala Thr Ser Leu Leu Gly
    50   55   60

Thr Met Thr Asp Ala Phe Pro Lys Leu Tyr Phe Asp Leu Cys Asp Leu

Ile Gly Asp Asp Trp Asp Glu Thr Gly Leu Gly Cys Arg Thr Pro Gly
                85   90   95

Gly Arg Lys Arg Ala Arg Ile Phe Asp Phe Tyr Val Cys Pro Gly His
             100   105   110

Thr Val Leu Ala Gly Cys Gly Gly Pro Arg Glu Gly Tyr Cys Gly Lys
             115   120   125

Trp Gly Cys Glu Thr Thr Gly Gln Ala Tyr Trp Lys Pro Ser Ser Ser
         130   135   140

Trp Asp Leu Ile Ser Leu Lys Arg Gly Asn Thr Pro Lys Gly Gln Gly
145   150   155   160

Pro Cys Tyr Asp Ser Ser Val Val Ser Ser Ser Ala Gln Gly Ala Thr
             165   170   175

Pro Gly Gly Arg Cys Asn Pro Leu Val Leu Glu Phe Thr Asp Ala Gly
             180   185   190

Lys Arg Ala Ser Trp Asp Ala Ser Lys Ala Trp Gly Leu Arg Leu Tyr
         195   200   205

Arg Ser Thr Arg Thr Asp Pro Val Thr Arg Phe Ser Leu Thr Arg Gln
         210   215   220

Val Leu Asn Ile Gly Pro Arg Val Pro Ile Gly Pro Asn Pro Val Ile
225   230   235   240

Ile Asp Gln Leu Pro Pro Ser Arg Pro Val Gln Ile Met Leu Pro Arg
             245   250   255

Pro Pro Gln Pro Pro Pro Gly Ala Ala Ser Thr Val Pro Glu Thr
             260   265   270

Ala Pro Pro Ser Gln Gln Pro Gly Thr Gly Asp Arg Leu Leu Asn Leu
             275   280   285

Val Asn Gly Ala Tyr Gln Ala Leu Asn Leu Thr Ser Pro Asp Lys Thr
             290   295   300

```
Gln Glu Cys Trp Leu Cys Leu Val Ala Gly Pro Pro Tyr Tyr Glu Gly
305             310             315             320


Val Ala Val Leu Gly Thr Tyr Ser Asn His Thr Ser Ala Pro Ala Asn
                325             330             335


Cys Ser Val Ala Ser Gln His Lys Leu Thr Leu Ser Glu Val Thr Gly
                340             345             350


Gln Gly Leu Cys Val Gly Ala Val Pro Lys Thr His Gln Ala Leu Cys
        355             360             365


Asn Thr Thr Gln Lys Thr Ser Asn Gly Ser Tyr Tyr Leu Ala Ala Pro
    370             375             380


Ala Gly Thr Ile Trp Ala Cys Asn Thr Gly Leu Thr Pro Cys Leu Ser
385             390             395             400


Thr Thr Val Leu Asp Leu Thr Thr Asp Tyr Cys Val Leu Val Glu Leu
                405             410             415


Trp Pro Lys Val Thr Tyr His Ser Pro Gly Tyr Val Tyr Gly Gln Phe
            420             425             430


Glu Glu Lys Thr Lys Tyr Lys Arg Glu Pro Val Ser Leu Thr Leu Ala
        435             440             445


Leu Leu Leu Gly Gly Leu Thr Met Gly Gly Ile Ala Ala Gly Val Gly
        450             455             460


Thr Gly Thr Thr Ala Leu Val Ala Thr Gln Gln Phe Gln Gln Leu Gln
465             470             475             480


Ala Ala Met Gln Asp Asp Leu Lys Glu Val Glu Lys Ser Ile Thr Asn
                485             490             495


Leu Glu Arg Ser Leu Thr Ser Leu Ser Glu Val Val Leu Gln Asn Arg
            500             505             510


Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly Leu Cys Ala Ala
        515             520             525
```

```
Leu Lys Glu Glu Cys Cys Phe Tyr Ala Asp His Thr Gly Leu Val Arg
    530             535             540


Asp Ser Met Ala Lys Leu Arg Glu Arg Leu Ser Gln Arg Gln Lys Leu
545             550             555             560


Phe Glu Ser Gln Gln Gly Trp Phe Glu Gly Leu Phe Asn Lys Ser Pro
                565             570             575


Trp Phe Thr Thr Leu Ile Ser Thr Ile Met Gly Pro Leu Ile Ile Leu
            580             585             590


Leu Leu Ile Leu Leu Phe Gly Pro Cys Ile Leu Asn His Leu Val Gln
        595             600             605


Phe Ile Lys Asp Arg Val Ser Val Val Gln Ala Leu Val Leu Thr Gln
    610             615             620


Gln Tyr His Gln Leu Lys Thr Ile Glu Asp Cys Glu Ser Arg Glu
625             630             635


<210>   3
<211>   23
<212>   DNA
<213>   Artificial

<220>
<223>   Primer

<400>   3
aacaatttca cacaggaaac agc                                                23


<210>   4
<211>   45
<212>   DNA
<213>   Artificial

<220>
<223>   Primer

<400>   4
gtttgccccg gtcacactgt gccaacaggg tgtggagggc cgaga                        45


<210>   5
<211>   93
<212>   DNA
<213>   Artificial
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<220>
<223> Primer

<400> 5
cttaagcgag gaaacactcc tcagaatcag ggcccctgtt atgattcctc agcggtctcc   60

agtgacatca aggtgccac accgggggt cga   93

<210> 6
<211> 87
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 6
ggtaaaaggg ccagctggga cggccccaaa gtatggggac taagactgta ccgatccaca   60

gggatcgacc cggtgacccg gttctct   87

<210> 7
<211> 54
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 7
ctaatagtcc tgggaatctt aataagggca ggagtatcag tacaacatga cagc   54

<210> 8
<211> 87
<212> DNA
<213> Artificial

<220>
<223> Primer

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (33)..(33)
<223> n is a, c, g, or t

<400> 8
ggtaaaaggg ccagctggga cgsnycnaaa gyntggggac taagactgta ccgatccaca   60

rgrayhgacc cggtgacccg gttctct   87

<210> 9
<211> 87
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 9
ggtaaaaggg ccagctggga cgcctccaaa gcatggggac taagactgta ccgatccaca   60

aggaccgacc cggtgacccg gttctct   87

<210> 10
<211> 87
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 10
ggtaaaaggg ccagctggga cgcctccaaa gcatggggac taagactgta ccgatccaca   60

aggatcgacc cggtgacccg gttctct   87

<210> 11
<211> 87
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 11
ggtaaaaggg ccagctggga cgcctccaaa gcatggggac taagactgta ccgatccaca   60

gggaccgacc cggtgacccg gttctct   87

<210> 12
<211> 87
<212> DNA
<213> Artificial

<220>

<400>   12
ggtaaaaggg ccagctggga cgcctccaaa gcatggggac taagactgta ccgatccaca   60

gggatcgacc cggtgacccg gttctct   87

<210>   13
<211>   22
<212>   DNA
<213>   Artificial

<220>
<223>   Primer

<400>   13
gattaagttg ggtaagccag gg   22

<210>   14
<211>   21
<212>   DNA
<213>   Artificial

<220>
<223>   Primer

<400>   14
cacagtgtga ccggggcaaa c   21

<210>   15
<211>   22
<212>   DNA
<213>   Artificial

<220>
<223>   Primer

<400>   15
agggagtgtt tcctcgctta ag   22

<210>   16
<211>   21
<212>   DNA
<213>   Artificial

<220>
<223>   Primer

<400>   16
gtcccagctg gcccttttac c   21

<210>   17

<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 17
taagattccc aggactatta g   21

<210> 18
<211> 26
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 18
ctctccaagc tcacttacag gccctc   26

<210> 19
<211> 32
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 19
tgcggccgcg tcgactggct aagccttatg aa   32

<210> 20
<211> 52
<212> DNA
<213> Artificial

<220>
<223> Spacer sequence

<400> 20
aaacacgatt gccgcgtgcg gccgctaaca ctccggagct cgagccaata tg   52

<210> 21
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Spacer sequence

<400> 21
aaacacgata ataccatg   18

<210> 22
<211> 17
<212> PRT
<213> MLV

<400> 22

Ala Ser Lys Ala Trp Gly Leu Arg Leu Tyr Arg Ser Thr Arg Thr Asp
1   5   10   15

Pro

<210> 23
<211> 17
<212> PRT
<213> MLV

<400> 23

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Ile Asp
1   5   10   15

Pro

<210> 24
<211> 17
<212> PRT
<213> MLV

<400> 24

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 25
<211> 17
<212> PRT
<213> MLV

<400> 25

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Gln Ser Thr Gly Ile Asp
1   5   10   15

Pro

<210> 26
<211> 17
<212> PRT
<213> MLV

<400> 26

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 27
<211> 17
<212> PRT
<213> MLV

<400> 27

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 28
<211> 17
<212> PRT
<213> MLV

<400> 28

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 29
<211> 17
<212> PRT
<213> MLV

<400> 29

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Ile Asp
1   5   10   15

Pro

<210>   30
<211>   17
<212>   PRT
<213>   MLV

<400>   30

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210>   31
<211>   17
<212>   PRT
<213>   MLV

<400>   31

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210>   32
<211>   17
<212>   PRT
<213>   MLV

<400>   32

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Pro Thr Gly Thr Asp
1   5   10   15

Pro

<210>   33
<211>   17
<212>   PRT
<213>   MLV

<400> 33

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 34
<211> 17
<212> PRT
<213> MLV

<400> 34

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Gln Ser Thr Gly Ile Asp
1   5   10   15

Pro

<210> 35
<211> 17
<212> PRT
<213> MLV

<400> 35

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Ile Asp
1   5   10   15

Pro

<210> 36
<211> 17
<212> PRT
<213> MLV

<400> 36

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Ile Asp
1   5   10   15

Pro

<210> 37

<210> 17
<212> PRT
<213> MLV

<400> 37

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 38
<211> 17
<212> PRT
<213> MLV

<400> 38

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 39
<211> 17
<212> PRT
<213> MLV

<400> 39

Gly Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Thr Asp
1   5   10   15

Pro

<210> 40
<211> 16
<212> PRT
<213> MLV

<400> 40

Thr Gly His Trp Trp Gly Leu Arg Leu Tyr Val Ser Gly His Asp Pro
1   5   10   15

<210> 41
<211> 16

<212> PRT
<213> MLV

<400> 41

Ile Gly His Tyr Trp Gly Leu Arg Leu Tyr Val Ser Gly Gln Asp Pro
1   5   10   15

<210> 42
<211> 16
<212> PRT
<213> MLV

<400> 42

Thr Gly His Tyr Trp Gly Leu Arg Leu Tyr Val Ser Gly Gln Asp Pro
1   5   10   15

<210> 43
<211> 16
<212> PRT
<213> MLV

<400> 43

Thr Gly His Trp Trp Gly Leu Arg Leu Tyr Val Ser Gly His Asp Pro
1   5   10   15

<210> 44
<211> 16
<212> PRT
<213> MLV

<400> 44

Thr Gly His Tyr Trp Gly Leu Arg Leu Tyr Val Ser Gly Arg Asp Pro
1   5   10   15

<210> 45
<211> 16
<212> PRT
<213> MLV

<400> 45

Gly Pro Lys Ser Trp Gly Leu Arg Leu Tyr Arg Thr Gly Thr Asp Pro
1   5   10   15

<210> 46
<211> 16
<212> PRT
<213> MLV

<400> 46

Gly Pro Lys Ser Trp Gly Leu Arg Leu Tyr Arg Thr Gly Thr Asp Pro
1   5   10   15

<210> 47
<211> 17
<212> PRT
<213> MLV

<400> 47

Ala Pro Lys Val Trp Gly Leu Arg Leu Tyr Arg Ser Thr Gly Ala Asp
1   5   10   15

Pro

<21